

# Comparisons of Job Characteristics

**Focus Occupation:** [Electrical and Electronics Repairers, Powerhouse, Substation, and Relay \(49-2095\)](#)

**Associated Occupation:** [Telecommunications Equipment Installers and Repairers, Except Line Installers \(49-2022\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 65

**Focus Occupation:** Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

**Associated Occupation:** Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Telecommunications	3.9	19.3	10.0	<< Extensive education and/or training may be required
Computers and Electronics	8.4	15.4	12.2	<< Extensive education and/or training may be required
Mechanical	6.8	12.4	17.1	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 81

**Focus Occupation:** Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

**Associated Occupation:** Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	11.8	10.7	< A higher skill level may be required
Quality Control Analysis	5.9	11.5	10.2	< A higher skill level may be required
Operation Monitoring	6.6	11.4	10.0	< A higher skill level may be required
Repairing	3.4	10.6	11.1	0 Current skill level may be sufficient
Equipment Maintenance	3.5	10.3	11.4	> Skill level is likely sufficient
Operation and Control	5.4	10.0	8.3	< A higher skill level may be required
Equipment Selection	3.3	9.2	5.6	<< Extensive development of skills in this area may be required
Installation	1.7	7.7	2.1	<< Extensive development of skills in this area may be required

Programming	2.2	5.2	2.8	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84			
Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.9	9.3	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.0	9.8	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.4	9.4	<	Some improvement in abilities may be required
Visualization	7.5	11.0	10.1	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	8.6	4.4	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	8.3	3.8	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.1	3.2	<<	Extensive improvement in abilities may be required
Night Vision	2.1	5.9	2.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 83
Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Clean equipment or machinery	20	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Maintain electrician's tools or equipment	92	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Prepare site or surfaces for concrete or masonry work	76	
Read blueprints	10	
Read schematics	34	

Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use interpersonal communication techniques	10
Use soldering equipment	44
Use two-way radio or mobile phone	42
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)**  
**Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.